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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/706,642	11/12/2003	Kazue Tanaka	17134	7885	
	7590 07/12/200 TT MURPHY & PRES		EXAMINER  JAWORSKI, FRANCIS J		
400 GARDEN					
SUITE 300 GARDEN CIT	Y, NY 11530		ART UNIT PAPER NUMBER		
			3768		
			MAIL DATE	DELIVERY MODE	
,			07/12/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

			1/2
	Application No.	Applicant(s)	· · · · · · · · · · · · · · · · · · ·
	10/706,642	TANAKA	
Office Action Summary	Examiner	Art Unit	
	Jaworski Francis J.	3768	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory per  - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b).	B DATE OF THIS COMMUNICATION IN THE STATE OF THIS COMMUNICATION IN THE STATE OF THE	CATION.  reply be timely filed  ITHS from the mailing date of this communi  BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 1.	3 April 2007.		
2a) This action is <b>FINAL</b> . 2b) ⊠ T	his action is non-final.		
3) Since this application is in condition for allow	wance except for formal matt	ers, prosecution as to the meri	its is
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.D	). 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-34</u> is/are pending in the applicat	ion.		
4a) Of the above claim(s) 1 and 6-34 is/are		1.	
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>2-5</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction an	d/or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Exam	iner.		
10) The drawing(s) filed on is/are: a) a		by the Examiner.	
Applicant may not request that any objection to	· · · · · · · · · · · · · · · · · · ·		
Replacement drawing sheet(s) including the corr	rection is required if the drawing	(s) is objected to. See 37 CFR 1.1	21(d).
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached	d Office Action or form PTO-15	2.
Priority under 35 U.S.C. § 119			
12) △ Acknowledgment is made of a claim for fore a) △ All b) ☐ Some * c) ☐ None of:  1. △ Certified copies of the priority documents. ☐ Certified copies of the priority documents. ☐ Certified copies of the priority documents.	ents have been received. ents have been received in A	pplication No	
3. Copies of the certified copies of the p		received in this National Stage	9
application from the International Bur	, ,,,		
* See the attached detailed Office action for a	list of the certified copies not	receivea.	
Attachment(s)	" <b>—</b> .   .	(0.70, 442)	
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> </ol>		Summary (PTO-413) s)/Mail Date	
Information Disclosure Statement(s) (PTO/SB/08)     Paper No(s)/Mail Date	5) ☐ Notice of I 6) ☐ Other:	nformal Patent Application —·	

## **DETAILED ACTION**

## Specification

The disclosure is objected to because of the following informalities:

The acronym DDS is not explained in association with elements 17 or 107 of respective Figs. 2 and 11 in the spec page 4 discussion. The examiner believes that this is a Direct Digital Synthesis circuit that converts the counter 103 output to a Sine wave frequency output.

Appropriate correction is required.

Claims 2 – 5 are present for examination in this case; remaining claims 1 and 6 – 34 stand withdrawn from consideration after election without traverse in the election response filed April 13, 2007.

## Claim Rejections - 35 USC § 102/103

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2 – 5 are rejected under 35 U.S.C. 102(a) as being anticipated by applicant's prior art Fig. 11, or in the alternative are rejected under 35 U.S.C. 103(a) as being unpatentable over applicant's prior art Fig. 11 and attendant specification discussion of this figure, further in view of Wiener et al US6678621.

With respect to anticipatory argument first, the Examiner is interpreting that inclusion of the analog voltage controlled oscillator 24 adapts the sweep which hunts for the initial resonance of the handpiece, which particular resonance must be exactly identified below a nominal limit provided in for example the handpiece coding of the device. In this fashion the initial resonance is more quickly identified so that the phase-locked loop tracking of resonance changes with tissue loading may occur. Therefore Fig. 2 as an exemplary embodiment of invention differs from Fig.11 in the presence of analog VCO 24 which changes the sweep speed as claimed in base claim 2. However, it is noted that the stopping of the sweep speed called for in step 107 described on page 8 of this application would represent a sweep speed change to zero from an initial value of step 103 as described in this application page 7 bottom. Otherwise the two figures both track the claimed features.

In the alternative, it would have been obvious in view of Wiener et al. col. 5 lines 47 – 61 to modify the sweep rate in increments as the resonance frequency is approached in order to avoid instability of overshoot of the resonance point.

Any inquiry concerning this communication should be directed to Jaworski Francis J. at telephone number 571-272-4738.

FJJ:fjj 7-6-07

Francis Maworski
Primary Examiner